## V0 Hunt

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## Why & How

- Nagoya has located several V0's in emulsion
- The standard US decay search code can't do this
  - Cobbled together some code to confirm Nagoya results
- Modified primary vertex search code to reduce background
  - Require "straight tracks" with nseg > 2
    - US fit angle DS fit angle < 5 mrad
  - Allow <2 missing plates</p>
  - Require vertex IP < 2 micron</li>
  - Require angle ( $\theta$ ) between 2ndry & primary vertex < 0.2
  - Require average angle of 2ndry tracks within 100 mrad of  $\theta$
  - Visual scan candidates check for match in SFT

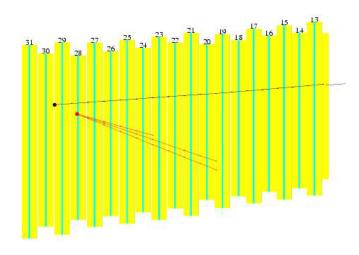
### Results so far

- Confirmed 2 Nagoya charm events
- Still scanning events
- Found a 3(?) prong curiosity in 3121\_03060

E872 Run= 3121 Event= 3060 Wght= 1.0

2 Run— U View

trk nhtnsegnomytx
1-291-00129123 18 2.2 1
2-271-0017608 7 2
2-271-0018764 9 2
4 2



#### E872 Run= 3121 Event= 3060 Wght= 1.0

# V View trk nhtnsegnomvtx 1-291-00129123 18 2.2 1 2-271-0017608 7 2

